**GIT COMMANDS**

***Basic Commands:***

*$git - contains all the necessary metadata and object database for version control in Git.*

*$mkdir foldername – To create a new folder*

*$touch filename – To create new text file*

*$cat filename – To view content in the filename*

*$rm filename – To remove file*

*$rm –rf foldername – To remove folder*

*$rm \* - To remove all files*

*$vi filename - The command is used to open or create a file*

*$ls –la – List the files and folders in hidden files*

***Getting & Creating Projects:***

*$git init - Initialize a local Git repository*

***Basic Snapshotting:***

*$ls .git – Shows the file inside the hidden .git folder*

*$git add [filename.text] - This command adds a file to the staging area.*

*$git add \* -This command adds one or more to the staging area*

*$git status - This command lists all the files that have to be committed.*

*$git commit –m “[Commit Message]” - This command records or snapshots the file permanently in the version history.*

*$git rm -r [file-name.txt] - Remove a file (or folder)*

*$git remote –v - View the remote repository of the currently working file or directory*

***Inspection & Comparison:***

*$git diff - This command shows the file differences which are not yet staged.*

*$git log - This command is used to list the version history for the current branch.*

*$git log –oneline - View changes (shortly)*

***Branching & Merging:***

*$git branch - This command lists all the local branches in the current repository.*

*$git branch [branchname] - This command creates a new branch.*

*$git branch –d [branchname] - This command deletes the feature branch.*

*$git branch –m [branchname] – This command is used to rename a branch in Git.*

*$git checkout [branchname] - This command is used to switch from one branch to another.*

*$git checkout -b branchname - This command creates a new branch and also switches to it*

*$git checkout – This command in Git is used to switch branches, restore files, or even inspect a specific commit.*

***Git config command:***

*$git config --global user.name “Github username” - This command sets the author name to be used with your commits.*

*$git config --global user.email “Github mail id” -This command sets the email address respectively to be used with your commits.*

*$git remote add origin (repository URL) – This command is used to link a local Git repository to a remote repository.*

***Sharing & Updating Projects:***

*$git cherry-pick [commit Id] – This command allows you to apply a specific commit from one branch onto another branch*

*$git reset --hard [Commit ID] - This command discards all history and goes back to the specified commit.*

*$git push --set –upstream origin [branchname] - Push the New Branch Name to the Remote*

*$git push origin --delete [branch name] –This command is used to delete a branch from a remote repository.*